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Power conscious fixed **priority** scheduling for hard real-time systems

[psu.edu](#) [PDF]

Y Shin, K Choi - Design Automation Conference, 1999 - doi.ieeecomputersociety.org

... to the maximum value; L3: exit; L4: end if L5: while delay queue.head.release **time** current **time**
do L6: move delay queue.head to the run queue; L7: end do L8: if run queue.head.**priority** active
task.priority then L9: set the active **task.executed time**; L10: context **switch**; L11: end if ...

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... available computer resources for **task** execution during idle-time for future **task** ...

E Horvitz - US Patent 5,784,616, 1998 - Google Patents

... for a given Windows NT (© 1993, Microsoft Press), thread, the computer, through context **switching**,
begins While ... of available ^ system assigns a priordty to a tosk< whether based on user processing
time. ... In that a **task** that previously was of low importance to low activity intervals ...

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A diary study of **task switching** and interruptions

M Czerwinski, E Horvitz, S Wilhite - Proceedings of the SIGCHI ..., 2004 - portal.acm.org

... Most tasks were rated as "high **priority**" on average. ... on the use of lightweight, temporal cues, such
as the state of a user's desktop at various **times** throughout a ... We are also building support for
context-aware, project-based visualizations and **task switching**, in a similar vein to the ...

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... for **task** execution during idle-time based on probabilistic assessment of future **task** ...

E Horvitz - US Patent 6,009,452, 1999 - Google Patents

... While the incor- poration of context **switching** increases the amount of pro- cessing overhead
consumed by ... to occurring just during idle 50 resource availability with the **task** resuming once
the **time**. ... In that regard, a **task** that previously was of low ing capacity either exists and is ...

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[PDF] ... clock-scaling adaptive scheduling techniques for low power in hard real-time ...

[uoguelph.ca](#) [PDF]

CM Krishna, YH Lee - IEEE Transactions on Computers, 2003 - soe.uoguelph.ca

... One can therefore incorporate the worst-case **switching** overhead into the worst-case execution
time of ... 8, where, for small values of a, a 2-**task** system performs noticeably worse ... Voltage-Clock

Scaling for Low Energy Consumption in Fixed-**Priority** Real-**Time** Embedded Systems ...

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[PDF] [Real-time control systems: a tutorial](#)

[unimelb.edu.au](#) [PDF]

A Gambier - Proceedings of the Asian Control ..., 2004 - [ascc2004.ee.unimelb.edu.au](#)
... The Dis- patcher carries out the context **switch**, ie the parameter saving for the outgoing **task** and the parameter loading for the ... If the **task** is aperiodic or the deadline is smaller than the period, then the deadline is used in the equation. ... Real-**Time** Scheduling FPS: Fixed-**Priority** ...

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[PDF] [Timing analysis for fixed-priority scheduling of hard real-time systems](#)

[psu.edu](#) [PDF]

MG Harbour, MH Klein, JP Lehoczky - IEEE Transactions on Software ..., 1994 - CiteSeer
... i i following algorithm where P' denotes the **priority** of subtask τ' . ij ij 4 This assumption can be relaxed by introducing the context **switch times** into the execution **times** of each **task**, using a technique similar to that discussed in [1]. 3 Page 4. ...

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[Energy-aware adaptive checkpointing in embedded real-time systems](#)

[psu.edu](#) [PDF]

Y Zhang, K Chakrabarty - Proceedings of the conference on Design, ..., 2003 - [portal.acm.org](#)
... 2. Checkpointing in real-**time** systems In this section, we present a **classification** of checkpointing ... The second **priority** is to save energy consumption for real-**time** execution in faulty ... 3. Adaptive checkpointing We are given the following parameters for a real-**time task**: deadline D ...

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[PDF] [Using a Worst-Case Execution Time Tool for Real-Time Verification of the ...](#)

[psu.edu](#) [PDF]

N Holsti, T Langbacka, S Saarinen - EUROPEAN SPACE AGENCY- ..., 2000 - CiteSeer
... and execution is also divided into an interrupt handler and a lower-**priority task**, because the ... the RTX-51 data sheet (Keil Software 1996) gives “average” **times**, not worst-case **times**. ... Bound-T to find WCETs for most RTX-51 services because they invoke **task switching**, which is ...

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[A survey on Real-Time Operating Systems](#)

S Baskiyar - Proceedings on Networks, Parallel and Distributed ..., 2002 - [actapress.com](#)
... The micro-kernel supports 256 **priority** levels, multitasking, deterministic context **switching** and preemptive and round robin ... It can be set up so that each **task** has a private virtual memory upon ... Although Windows NT provides fast response **times**, it is not as deterministic as a hard ...

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